



**COPADATA**  
do it your way

# zenon manual

## History of Changes

v.7.60





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# 1. Welcome to COPA-DATA help

## ZENON VIDEO-TUTORIALS

You can find practical examples for project configuration with zenon in our YouTube channel ([https://www.copadata.com/tutorial\\_menu](https://www.copadata.com/tutorial_menu)). The tutorials are grouped according to topics and give an initial insight into working with different zenon modules. All tutorials are available in English.

## GENERAL HELP

If you cannot find any information you require in this help chapter or can think of anything that you would like added, please send an email to [documentation@copadata.com](mailto:documentation@copadata.com) (<mailto:documentation@copadata.com>).

## PROJECT SUPPORT

You can receive support for any real project you may have from our Support Team, who you can contact via email at [support@copadata.com](mailto:support@copadata.com) (<mailto:support@copadata.com>).

## LICENSES AND MODULES

If you find that you need other modules or licenses, our staff will be happy to help you. Email [sales@copadata.com](mailto:sales@copadata.com) (<mailto:sales@copadata.com>).

# 2. History of Changes

The history of changes serves for complete documentation of the phase of engineering. All changes to a project such as change, delete, create, etc. can be protocolled. Per default the history of changes turned off and must be activated (on page 5) in the Editor.



## License information

Part of the standard license of the Editor and Runtime.

### PROJECT MANAGER CONTEXT MENU

Menu item	Action
<b>Export all as XML</b>	Exports all entries as an XML file.
<b>Export all as CSV...</b>	Exports all entries as an CSV file.
<b>Activate extended filter</b>	Opens the dialog for Engineering enhanced filter settings (on page 8).
<b>Deactivate extended filter</b>	Deletes the settings for the extended filters and deactivates the property for the engineering of the extended filter settings.
<b>Editor profile</b>	Opens the drop-down list with predefined editor profiles.
<b>Help</b>	Opens online help.

## 3. Engineering in the Editor

The history of changes must be activated in the Editor. To do this:

1. Go to the **History of Changes** group in the project properties.
2. Activate the **History of changes active** property.
3. Select via property **Detailing level** which details should be recorded:
  - **Object**: Only the object names of the changed objects are logged.
  - **Properties**: Additionally to the object names the changed properties and the new values are displayed in the history of changes.
  - **Value changes**: Not only the new value of a property is displayed but also the old one. This makes complete traceability of the changes of values possible. This setting causes the most detail level of logging.  
**Note**: Amended values are cut to a length of 128 characters.
4. With multi-user projects, the entry of a comment can also be unlocked automatically for write access using the **Automatically allow changes** property. This setting is deactivated by default, because it can lead to a load being placed on the processor that is too great.

## PROTECTING THE HISTORY OF CHANGES

The activating/deactivating of the history of changes can be protected from unauthorized user access. To do this:

1. Go to the **User Administration** group in the project properties.
2. Click in the field of property **Function authorizations**.  
The dialog for changing the function authorization is opened
3. Select for **Turn on/off history of changes** the desired authorization level

### 3.1 Change history detail view of toolbar and context menu



#### CONTEXT MENU

Menu item	Action
<b>Filter Module</b>	Sets the filter to the module of the selected entry.
<b>Filter object</b>	Sets the filter to the object of the selected entry.
<b>Activate extended filters</b>	Activates the property for engineering extended filter settings.
<b>Deactivate extended filters</b>	Deletes the settings for the extended filters and deactivates the property for the engineering of the extended filter settings.
<b>Remove all filters</b>	Removes all filter settings.
<b>Copy</b>	Copies the selected entries to the clipboard.
<b>Delete</b>	Deletes selected entries after a confirmation from list.
<b>Export selected as XML...</b>	Exports all selected entries as an XML file.
<b>Export selected CSV</b>	Exports all selected entries as an CSV file.
<b>Edit selected cell</b>	Opens the selected cell for editing. The binocular symbol in the header shows which cell has been selected in a highlighted line. Only cells that can be edited can be selected.
<b>Properties</b>	Opens the <b>Properties</b> window.
<b>Help</b>	Opens online help.

## 4. Logged data

If the history of changes is activated, the changes are displayed in the detail view of the project manager according to the selected settings. The first entry documents the activation of the History of changes. At deactivation the last entry is the deactivating of the history of changes.

Entry	Description
<b>State</b>	State of the object for multi-user projects. Green: Object has the state <code>Enable</code> changes Empty: Object has the state <code>Apply</code> changes
<b>Timestamp</b>	Date and time.
<b>Action</b>	Type of interference. Possible values: <ul style="list-style-type: none"> <li>▶ New</li> <li>▶ Changed</li> <li>▶ Deleted</li> <li>▶ New - VBA</li> <li>▶ Changed - VBA</li> <li>▶ Deleted - VBA</li> </ul>
<b>Module</b>	The module (e.g. PFS, archive, report) in which the changes have been made.
<b>Object</b>	Object which was changed.
<b>Element</b>	Element which was changed. Recorded is the name as defined in property <b>Element name</b> .
<b>Property</b>	The property of the objects/elements which were changed.
<b>Old value</b>	The value of the property before changes were done. Only available if you selected <code>Value</code> change in project property <b>Detailling level</b> .
<b>New value</b>	Value of the property after the change. Only available if in project settings under <b>Detailling level</b> <code>Properties</code> or <code>Value</code> changes was selected.
<b>Users</b>	The user who carried out the changes. If the user administration is not activated or no user is logged in, the Windows user is read out and entered.
<b>Computers</b>	The name of the computer where the changes have been made.
<b>Comment</b>	Freely usable text.

You can sort the columns as you wish by dragging&dropping. Each column can be filtered (on page 8)for certain content.

**Note:** If you can certain properties which open a dialog for additional settings, not all changes are recorded.

For example: In module Batch Control you change a parameter which is linked to a phase via a formula. This change is not recorded. If you change the formula, the change is recorded.

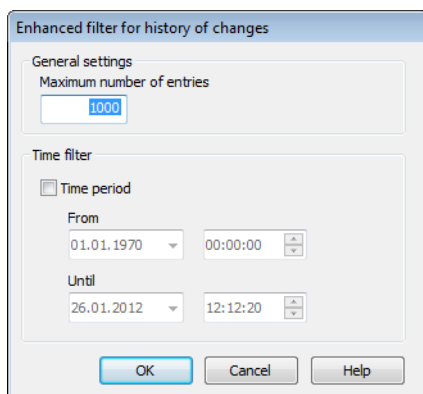
## 4.1 Filter data

There are two possibilities to filter displayed list of the history of changes:

1. Enhanced filter of the history of changes
2. Filter of the list view

### ENHANCED FILTER OF THE HISTORY OF CHANGES

You can reach the enhanced filter via the context menu in the project manager or in the detail view.



The screenshot shows a dialog box titled "Enhanced filter for history of changes". It is divided into two sections: "General settings" and "Time filter".

- General settings:** Contains a text input field labeled "Maximum number of entries" with the value "1000" entered.
- Time filter:** Contains a checkbox labeled "Time period" which is checked. Below it are two rows of date and time pickers:
  - From:** A date picker set to "01.01.1970" and a time picker set to "00:00:00".
  - Until:** A date picker set to "26.01.2012" and a time picker set to "12:12:20".

At the bottom of the dialog are three buttons: "OK", "Cancel", and "Help".



## GENERAL SETTINGS

Parameters	Description
<b>Maximum number of entries</b>	<p>Defines the maximum number of data sets which are displayed in the list.</p> <p>0: Unlimited number</p> <p>Default: 1000</p>

## TIME FILTER

Parameters	Description
<b>Time period</b>	<p>Enables filtering on a specified time period or to or from a certain point in time.</p> <p><i>Active:</i> Only entries from the given time period are displayed. <i>Default:</i> deactivated</p>
<b>From</b>	Date and time after which changes should be displayed.
<b>Until</b>	Date and time up to which changes should be displayed.

# 5. Logged actions

In the history of changes the following is protocolled:

Object	Changes
<b>zenon Logic</b>	<ul style="list-style-type: none"> <li>▶ New zenon Logic project</li> <li>▶ zenon Logic Delete project</li> <li>▶ zenon Logic Change project</li> </ul>
<b>Add-in Framework</b>	<ul style="list-style-type: none"> <li>▶ Installation of add-in packages</li> <li>▶ Uninstallation of add-in packages</li> </ul>

<b>Archives</b>	<ul style="list-style-type: none"> <li>▶ New archive</li> <li>▶ Delete archive</li> <li>▶ Change archive</li> <li>▶ Add variable</li> <li>▶ Delete variable</li> </ul>
<b>Users</b>	<ul style="list-style-type: none"> <li>▶ New user</li> <li>▶ Delete user</li> <li>▶ Change user</li> </ul>
<b>Screens</b>	<ul style="list-style-type: none"> <li>▶ New screen</li> <li>▶ Delete screen</li> <li>▶ Change screen</li> </ul>
<b>Files</b>	<ul style="list-style-type: none"> <li>▶ Add file</li> <li>▶ Delete file</li> <li>▶ Change file</li> </ul>
<b>Data Types</b>	<ul style="list-style-type: none"> <li>▶ Datatype new</li> <li>▶ Delete data type</li> <li>▶ Change data type</li> </ul>
<b>Dynamic elements/ Vector elements</b>	<ul style="list-style-type: none"> <li>▶ Element new</li> <li>▶ Delete element</li> <li>▶ Change element</li> </ul>
<b>Functions</b>	<ul style="list-style-type: none"> <li>▶ Function new</li> <li>▶ Delete function</li> <li>▶ Change function</li> </ul>
<b>Menus</b>	<ul style="list-style-type: none"> <li>▶ New main menu</li> <li>▶ Delete main menu</li> <li>▶ Change main menu</li> <li>▶ New context menu</li> <li>▶ Delete context menu</li> <li>▶ Change context menu</li> </ul>
<b>Message Control</b>	<ul style="list-style-type: none"> <li>▶ At saving changes</li> </ul>
<b>Process Control Engine</b>	<ul style="list-style-type: none"> <li>▶ At saving changes</li> </ul>
<b>Project</b>	<ul style="list-style-type: none"> <li>▶ Move project within project tree</li> </ul>
<b>Project Backup</b>	<ul style="list-style-type: none"> <li>▶ Creating a project backup with version number.</li> </ul>

<b>Reaction Matrices</b>	<ul style="list-style-type: none"> <li>▶ Rema new</li> <li>▶ Delete Rema</li> <li>▶ Change Rema</li> </ul>
<b>Report</b>	<ul style="list-style-type: none"> <li>▶ New report</li> <li>▶ Delete report</li> <li>▶ Change report- when saved</li> </ul>
<b>Recipe</b>	<ul style="list-style-type: none"> <li>▶ Recipe new</li> <li>▶ Delete recipe</li> <li>▶ Change Recipe</li> <li>▶ Add variable</li> <li>▶ Delete variable</li> <li>▶ Change value</li> </ul>
<b>Recipe groups</b>	<ul style="list-style-type: none"> <li>▶ New Recipe group</li> <li>▶ Delete Recipe group</li> <li>▶ Change Recipe group</li> <li>▶ Recipe new</li> <li>▶ Change Recipe</li> <li>▶ Delete recipe</li> <li>▶ Add variable</li> <li>▶ Delete variable</li> <li>▶ Change value</li> <li>▶ Change source</li> <li>▶ Change source type</li> </ul>
<b>Frames</b>	<ul style="list-style-type: none"> <li>▶ Create new frame</li> <li>▶ Delete frame</li> <li>▶ Change frame</li> </ul>
<b>Scheduler</b>	<ul style="list-style-type: none"> <li>▶ At saving changes</li> </ul>
<b>Fonts</b>	<ul style="list-style-type: none"> <li>▶ Font new</li> <li>▶ Delete font</li> <li>▶ Change font</li> </ul>
<b>Scripts</b>	<ul style="list-style-type: none"> <li>▶ Script new</li> <li>▶ Delete script</li> <li>▶ Change script</li> </ul>

<b>Language table</b>	<ul style="list-style-type: none"> <li>▶ New entry</li> <li>▶ Delete entry</li> <li>▶ Change entry</li> </ul>
<b>Drivers</b>	<ul style="list-style-type: none"> <li>▶ Driver new</li> <li>▶ Delete Driver</li> <li>▶ Change Driver</li> </ul>
<b>VBA</b>	<ul style="list-style-type: none"> <li>▶ When saved the changes in the VBA-Editor an entry is generated.</li> </ul>
<b>Variables</b>	<ul style="list-style-type: none"> <li>▶ New variable</li> <li>▶ Delete variable</li> <li>▶ Change data point</li> </ul>
<b>Interlockings</b>	<ul style="list-style-type: none"> <li>▶ New interlocking</li> <li>▶ Change interlocking</li> <li>▶ Delete interlocking</li> <li>▶ New variable</li> <li>▶ Delete variable</li> </ul>
<b>Time Control</b>	<ul style="list-style-type: none"> <li>▶ Time function new</li> <li>▶ Delete time function</li> <li>▶ Change time function</li> </ul>

## 6. Export data

The data of the history of changes can be exported as XML or CSV file.

To export data:

1. Highlight the desired entries  
(multiple selection is possible using the key combinations `Ctrl+left mouse button`, **Shift+left mouse button** and **Ctrl+a**)
2. select the desired export form (XML or CSV) in the context menu
3. the dialog for selecting where to save the file is opened
4. enter a name and confirm by clicking **Save**

**Note:** The headings of the entries in the exported data are in English.